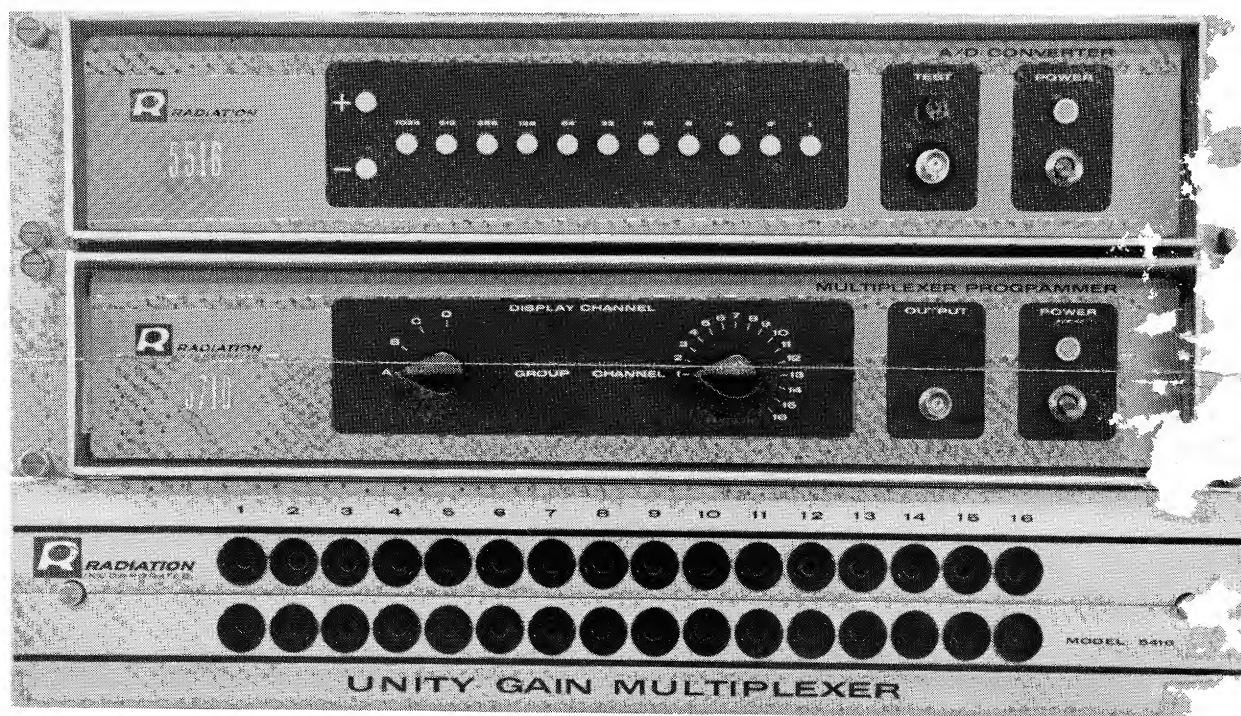


New Model 5013 data acquisition system...



**From analog data
to computer tape
for only \$9,500** plus cost
of recorder

- 50,000 samples/sec
- 12-bit resolution
- 16 analog inputs

New Radiation high speed system provides outstanding performance at unusually low cost

Do you acquire analog data which eventually must be processed in a digital computer? If so, now you can do it more economically and in one step with this new Radiation system, the Model 5013.

The basic system consists of A/D converter, multiplexer programmer, unity gain multiplexer, and formatting logic. Yet, this compact system requires only 10.5" of vertical panel space. While intended for rack mounting, the system is also available in a portable cabinet for desk-top use.

Model 5013 accepts analog data from up to 16 sources. The inputs are multiplexed, and each is converted into a 12-bit binary word. The system then formats these data for entry into the write amplifiers of the digital tape recorder of your choice.

Radiation's new Model 5013 is available for delivery. If you wish, we will be glad to provide interfacing equipment for the digital recorder of your choice or engineer a complete installation based on this unique, low-cost system. Additional options offered are: up to 64 input channels, pre-set digital information inputs, digital time coding, gapped-tape capability—using core buffer, plus any of the equipments shown at right.

Send the coupon for technical details or contact Radiation for applications assistance. Radiation Incorporated, Products Division, Department EL-03, Melbourne, Florida 32902. Phone: (305) 723-1511.

MODEL 5013 SYSTEM—BRIEF SPECIFICATIONS

High reliability and long life are assured by solid state modular construction and wire-wrap connections. Circuit changes and maintenance are simplified through use of plug-in Radiation Digital Logic Modules. The three units comprising Model 5013 are human-engineered for ease of operation. Each is only 3.5" high, resulting in unusual compactness. The system consists of:



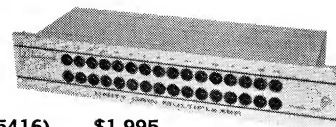
A/D Converter (Model 5516) \$3,741

Has input of ± 5 v, full scale, 50 kc word rate, is self-contained unit. Output format is 12-bit binary or 11-bit binary plus sign. Options are: 1. built-in sample and hold, add \$233; 2. display, add \$293; 3. buffered output, add \$83.



Multiplexer Programmer (Model 5710) \$1,995

Incorporates selector for displaying each individual channel on the A/D Converter without interrupting the normal coding process. Supplies necessary sequencing and programming signals to accommodate up to four Unity Gain Multiplexers for a 64-channel system. Derives clock from Model 5516 or may be externally synchronized.



Unity Gain Multiplexer (Model 5416) \$1,995

Has wide input flexibility and high reliability (MTBF 16,767 hours). This modular building block accepts single ended, differential or mixed inputs. Offset and zero drift are less than $5 \mu\text{v}$, 20 to 30°C . Maximum sampling rate is 50 kc, two or more channels.

OPTIONAL UNITS—BRIEF SPECIFICATIONS

The highly stable, solid-state units below are designed to increase the flexibility of the basic Model 5013 System:



D/A Converter (Model 5610) \$3,950

Accepts 8-bit parallel binary multiplex, provides 12 inputs, 12 D/A converter outputs. Adjustment free. Output: 0 to -5 v excursion for zero to full scale. Voltage resolution: 0.39% (9.76 mv). Settling time: less than 2 μsec . Available without display at \$3,750.



Read/Write Electronics (Model 5810) \$6,000

Adaptable to 7 or 9-track requirements. Binary or BCD: 200, 556 or 800 bits/inch. Manual write lockout control. Contains parity generator on write and parity check on read. Adaptable to write heads with either center-tapped or single winding.



RADIATION PRODUCTS DIVISION
A DIVISION OF RADIATION INCORPORATED

MELBOURNE, FLORIDA 32902

Gentlemen: Please send technical data on products listed below:

☐ Model 5013 ☐ Model 5516 ☐ Model 5710 ☐ Model 5416 ☐ Model 5610 ☐ Model 5810

Name _____ Title _____

Firm _____

Address _____ City _____ State _____ Code _____